Title (en)
   SEAT BELT DEVICE

Title (de)
   SICHERHEITSGURTVORRICHTUNG

Title (fr)
   DISPOSITIF DE CEINTURE DE SÉCURITÉ

Publication
   EP 2711252 A4 20141224 (EN)

Application
   EP 12825426 A 20120618

Priority
   • JP 2011182524 A 20110824
   • JP 2012065538 W 20120618

Abstract (en)
   [origin: EP2711252A1] A seat belt device includes a belt reel around which webbing is wound, a winding spring that rotationally biases the belt reel in a winding direction, a motor that is configured to transmit a driving force to the belt reel, a clutch that is interposed between the motor and the belt reel, and which performs connection/disconnection of the motor and the belt reel, a webbing speed detection unit that detects the winding speed of the webbing, a fastened/released state detection unit that detects a fastened state and a released state of the webbing, a basic winding control unit that drives the motor in the winding direction in a rotating manner and puts the clutch into a connected state, and a speed increase correction unit that increases the speed of the motor with respect to the speed of the motor obtained by the control of the basic winding control unit.

IPC 8 full level
   B60R 22/46 (2006.01); **B60R 22/02** (2006.01); **B60R 22/44** (2006.01); **B60R 22/48** (2006.01)

CPC (source: EP US)
   B60R 22/023 (2013.01 - EP US); **B60R 22/44** (2013.01 - EP US); **B60R 22/46** (2013.01 - EP US); **B60R 22/48** (2013.01 - US); B60R 2022/029 (2013.01 - EP US); B60R 2022/444 (2013.01 - EP US); B60R 2022/4666 (2013.01 - EP US)

Citation (search report)
   • [A] US 2010117438 A1 20100513 - TAKAO MASATO [JP], et al
   • [A] EP 2143597 A1 20100113 - HONDA MOTOR CO LTD [JP]
   • [A] US 2007040058 A1 20070222 - KOIDE TERUHIKO [JP]
   • See references of WO 2013027478A1

Designated contracting state (EPC)
   AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
   EP 2711252 A1 20140326; **EP 2711252 A4 20141224**; **EP 2711252 B1 20160420**; CN 103732455 A 20140416; CN 103732455 B 20151125; JP 5604595 B2 20141008; JP WO2013027478 A1 20150319; US 2014117139 A1 20140501; US 9718438 B2 20170801; WO 2013027478 A1 20130228

DOCDB simple family (application)
   EP 12825426 A 20120618; CN 201280039574 A 20120618; JP 2012065538 W 20120618; JP 2013529919 A 20120618; US 201214126592 A 20120618